

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY **GOVERNOR**

LYNDO TIPPETT SECRETARY

November 22, 2005

MEMORANDUM TO:

Mr. J. M. Mills, P.E.

Division 7 Engineer

FROM:

Philip S. Harris, III, P.E.

Natural Environment Unit Head

Project Development and

Environmental Analysis Branch

SUBJECT:

Guilford County; Replace No. 20 on SR 4121 (Old US 29/70A)

over Deep River; T.I.P. Number B-3652; State Project No.

8.2495801; F. A. Project No. BRSTP-4121(2)

Attached is the modification to the Buffer Certification for the construction of the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc:

Mr. Art McMillan, P.E.

Mr. Omar Sultan

Mr. Jay Bennett, P.E.

Mr. David Chang, P.E.

Mr. Randy Garris, P.E.

Mr. Greg Perfetti, P.E.

Mr. Mark Staley

Mr. John F. Sullivan, III, FHWA

Mr. Jerry Parker, Division 7 DEO

TELEPHONE: 919-733-3141 FAX: 919-733-9794

WEBSITE: WWW.DOT.ORG

PROJECT ENVIRONMENTAL COMMITMENTS

Guilford County
Bridge No. 20 on SR 4121 (Old US 29/70A)
over Deep River
Federal Aid Project No. BRSTP-4121(2)
State Project No. 8.2495801
T.I.P. No. B-3652

NCDOT has agreed to the standard Nationwide Permit No. 23 Conditions, the General Nationwide Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, NCDOT's Guidelines for Best Management Practices for the Protection of Surface Waters, Design Standard for Sensitive Watersheds, Best Management Practices for Bridge Demolition and Removal (BMPs-BDR), General Certification Conditions, and Section 401 Conditions of Certification.

Division 7 and Highway Design:

- 1. No in-stream work may occur on this project during a moratorium period of April 1 to May 31, due to the sunfish population.
- High Quality Sedimentation and Erosion Control Measures will be used due to the DWQ water quality classification of WS-IV.
- The project is within the area of the Deep River Basin covered by the Randleman Rules and NCDOT will comply with the conditions to obtain a "General" Major Variance and submit a "General" Major Variance form as described in 15A NCAC 2B.0250 to DENR with the 401 Water Quality Certification.
- 4. A 4-inch (10-centimeter) conduit will be provided on the replacement crossing to accommodate future expansion of the City of High Point Transportation Department's signal system.
- 5. Early and extensive utility coordination efforts will be conducted with local officials from High Point and Jamestown.

<u>Project Development and Environmental Analysis Branch</u>, <u>Division 7</u>, <u>Highway Design and Roadside Environmental</u>:

6. The aesthetic design for the project will be developed in consultation with the North Carolina State Historic Preservation Officer (SHPO) to reflect the character of the area including: 1)

minimization of tree cutting and impacts to the trees that remain (protective tree measures); 2) development of a landscape plan in consultation with the property owners and review of the landscape plan with the North Carolina State Historic Preservation Office (HPO); 3) inclusion of a two-bar metal bridge rail on a concrete parapet design on the replacement structure.

- 7. The new crossing will include clearance for 10-foot (3-meter) wide pathways beneath both sides of the bridge and NCDOT will allow access for these pathways.
- 8. Brick sidewalks, matching the brick sidewalks throughout the Town limits and along SR 4121, will be used when replacing the existing sidewalk. All decorative light standards affected by the project will be replaced.

Commitments Developed During Permitting

Standard Nation Wide 23 and 33 Permit Conditions Apply

Categorical Exclusion - Green Sheet February 2004

T-062 P005/006 F-133

Alan W. Klimek, P.E. Director Division of Water Quality Coleen H. Sullins, Deputy Director Division of Water Quality

> November 21, 2005 DWQ No. 05-0164 **Guilford County**

Dr. Gregory J. Thorpe, PhD., Manager Planning and Environmental Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina, 27699-1548

Re:

Modification to Authorization Certificate for:

Guilford County, Replacement of Bridge No. 20 over Deep River on SR 4121, Federal Aid Project No. BRSTP-4121(2); State Project No. 82495801; TIP B-3652.

Deep River [03-06-08; WS-IV*]

APPROVAL of RANDLEMAN RIVER BUFFER RULES AUTHORIZATION CERTIFICATE with ADDITIONAL CONDITIONS

Dear Dr. Thorpe,

You have our approval, in accordance with the attached conditions, to impact 11,761 square feet of protected riparian buffers in Zone 1, and 7,134 square feet of protected riparian buffers in Zone 2 for the purpose of replacing Bridge Number 20 over Deep River on SR 4212 in Guilford County. This approval is a modification to an approval dated February 18, 2005 to include an additional 600 square feet of impacts to protected riparian buffers in Zone 2 for additional utility construction.

The project shall be constructed according to your original application dated January 27, 2005, the modification application dated November 14, 2005, and any conditions listed below. This approval shall act as your Authorization Certificate as required within the Randleman River Riparian Buffer Rules (15A NCAC 2B .0250). In addition, you should get any other required federal, state or local permits before you go ahead with your project including (but not limited to) Sediment and Erosion Control.

This approval is only valid for the purpose and design that you described in your applications dated January 27, 2005 and November 14, 2005. If you change your project, you must notify us and you may be required to send us a new application. If the property is sold, the new owner must be given a copy of this authorization and approval letter and is thereby responsible for complying with all conditions. For this approval to be valid, you must follow the conditions listed below.

- All stormwater runoff shall be directed to sheetflow through stream buffers at nonerosive velocities, unless approved otherwise by this certification.
- During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- The post-construction removal of any temporary bridge structures will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species is also required.



- No changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of the culverts, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality 401 Wetlands Unit. In addition, no changes to the flow spreader locations or designs, preformed scour hole locations or designs are permitted without written approval from the NC Division of Water Quality 401 Wetlands Unit. Any request for changes to the referenced items above will require submittal of a modification request, with seven copies, and corresponding fees will need to be submitted to the North Carolina Division of Water Quality.
- Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- Pursuant to NCAC15A 2B.0250, sediment and erosion control devices shall not be placed in Zone 1 of any Randleman Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1 anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
- All protected riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species upon completion of the project construction. A post-construction as-built with the restoration activities included shall be submitted to the DWQ no later than 60 days after the project is closed out by the Department of Transportation.

If you do not accept any of the conditions of this authorization, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition, which conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. This authorization and its conditions are final and binding unless you ask for a hearing.

This letter completes the review of the Division of Water Quality under the "No Practical Alternatives" determination required in 15A NCAC 2B .0250(2). If you have any questions, please contact Sue Homewood at 336-771-4600 or Suc.Homewood@ncmail.net.

Sincerely,

Alan W. Klimek, P.E.

`Director

cc: US Army Corps of Engineers Raleigh Field Office

DWQ Winston-Salem Regional Office

DWQ Wetlands/401 Unit - File Copy

DWQ Central Files

11-22-405 11:05 FROM-Div of Water Quality

3367714630

T-062 P003/006 F-133

North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director Division of Water Quality Coleen H. Sullins, Deputy Director Division of Water Quality

Division of Water
February 18, 2005
DWO No. 05-0164

Guilford County

Dr. Gregory J. Thorpe, PhD., Manager Planning and Environmental Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina, 27699-1548

Re:

Guilford County, Replacement of Bridge No. 20 over Deep River on SR 4121, Federal Aid Project No. BRSTP-4121(2); State Project No. 82495801; TIP B-3652. Deep River [03-06-08; WS-IV*]

APPROVAL of RANDLEMAN RIVER BUFFER RULES AUTHORIZATION CERTIFICATE with ADDITIONAL CONDITIONS

Dear Dr. Thorpe,

You have our approval, in accordance with the attached conditions, to impact 11,761 square feet of protected riparian buffers in Zone 1, and 6,534 square feet of protected riparian buffers in Zone 2 for the purpose of replacing Bridge Number 20 over Deep River on SR 4212 in Guilford County. The project shall be constructed according to your application dated January 27, 2005 and any conditions listed below. This approval shall act as your Authorization Certificate as required within the Randleman River Riparian Buffer Rules (15A NCAC 2B .0250). In addition, you should get any other required federal, state or local permits before you go ahead with your project including (but not limited to) Sediment and Erosion Control.

This approval is only valid for the purpose and design that you described in your application dated January 27, 2005. If you change your project, you must notify us and you may be required to send us a new application. If the property is sold, the new owner must be given a copy of this authorization and approval letter and is thereby responsible for complying with all conditions. For this approval to be valid, you must follow the conditions listed below.

- All stormwater runoff shall be directed to sheetflow through stream buffers at nonerosive velocities, unless approved otherwise by this certification.
- During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- The post-construction removal of any temporary bridge structures will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species is also required.
- No changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality 401 Wetlands Unit. In addition, no changes to the flow spreader locations or designs, preformed secur hole locations or designs are permitted without written approval from the NC Division of Water Quality 401 Wetlands Unit. Any request for changes to the referenced items above will require submittal of a modification request, with seven copies, and corresponding fees will need to be submitted to the North Carolina Division of Water Quality.





11-22-'05 11:05 FROM-Div of Water Quality 3367714630 T-062 P004/006 F-133 DWO No. 05-0164

- Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- Pursuant to NCAC15A 2B.0250, sediment and erosion control devices shall not be placed in Zone 1 of any Randleman Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1 anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
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If you do not accept any of the conditions of this authorization, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition, which conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. This authorization and its conditions are final and binding unless you ask for a hearing.

This letter completes the review of the Division of Water Quality under the "No Practical Alternatives" determination required in 15A NCAC 2B .0250(2). If you have any questions, please contact Sue Homewood at 336-771-4600 or Sue.Homewood@ncmail.net.

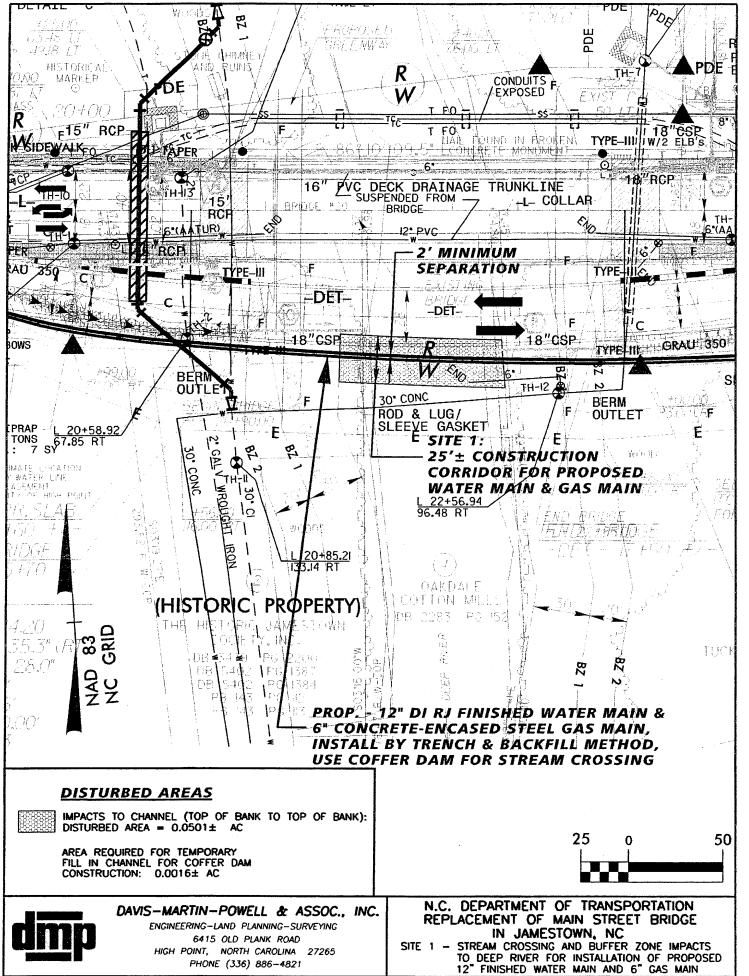
Sincerely,

Alan W. Klimek, P.E.

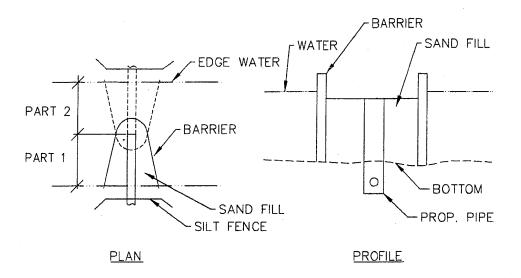
Director

cc: US Army Corps of Engineers Raleigh Field Office
"DWQ"Winston-Salem Regional Office
Wetlands/401 Unit - File Copy
Central Files

C:\ncdot\TIP \wqc\ buffer authorization.doc



MOV 2005 Short 107 3



CONSTRUCTION SEQUENCE

- 1 CONSTRUCTION SHALL BE PERFORMED DURING LOW FLOW PERIODS.
- 2 CROSSINGS SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT PROHIBIT THE STREAM FLOW.
- 3 THE BANK OPPOSITE OF THE COFFER DAM SHALL BE PROTECTED BY SAND BAGS. THE MINIMUM LENGTH OF PROTECTION REQUIRED IS 25 FT ON EACH SIDE OF THE COFFER DAM, AT A HEIGHTH OF 24" ABOVE WATER LEVEL. THE EXTENT OF PROTECTION MAY VARY AS DIRECTED BY THE ENGINEER ON AN INDIVIDUAL BASIS.
- 4 INSTALL NON-ERRODIBLE BARRIER AROUND 1/2 OF CROSSING.
- 5 INSTALL FILTER FABRIC AROUND INSIDE BARRIER.
- 6 PLACE SAND FILL INSIDE BARRIER.
- 7 EXCAVATE PIPE TRENCH.
- 8 INSTALL PIPE.
- 9 BACKFILL WITH CONCRETE AND/OR EXCAVATED MATERIAL TO ORIGINAL PROFILE.
- 10 REMOVE SAND FILL.
- 11 REMOVE FILTER FABRIC AND BARRIER.
- 12 IMMEDIATELY REVEGETATE STREAM BANK BY SEEDING AND MULCHING.
- 13 INSTALL TEMPORARY SILT FENCE.
- 14 RELOCATE TO OPPOSITE SIDE OF STREAM AND REPEAT ABOVE STEPS.
- 15 AFTER WATER MAIN HAS BEEN INSTALLED AND COFFER DAMS REMOVED, CONTRACTOR SHALL INSTALL CLASS I RIP RAP WITH FILTER FABRIC AND STONE UNDERLAYMENT TO STABILIZE STREAM BED.

COFFER DAM STREAM CROSSING

NO SCALE

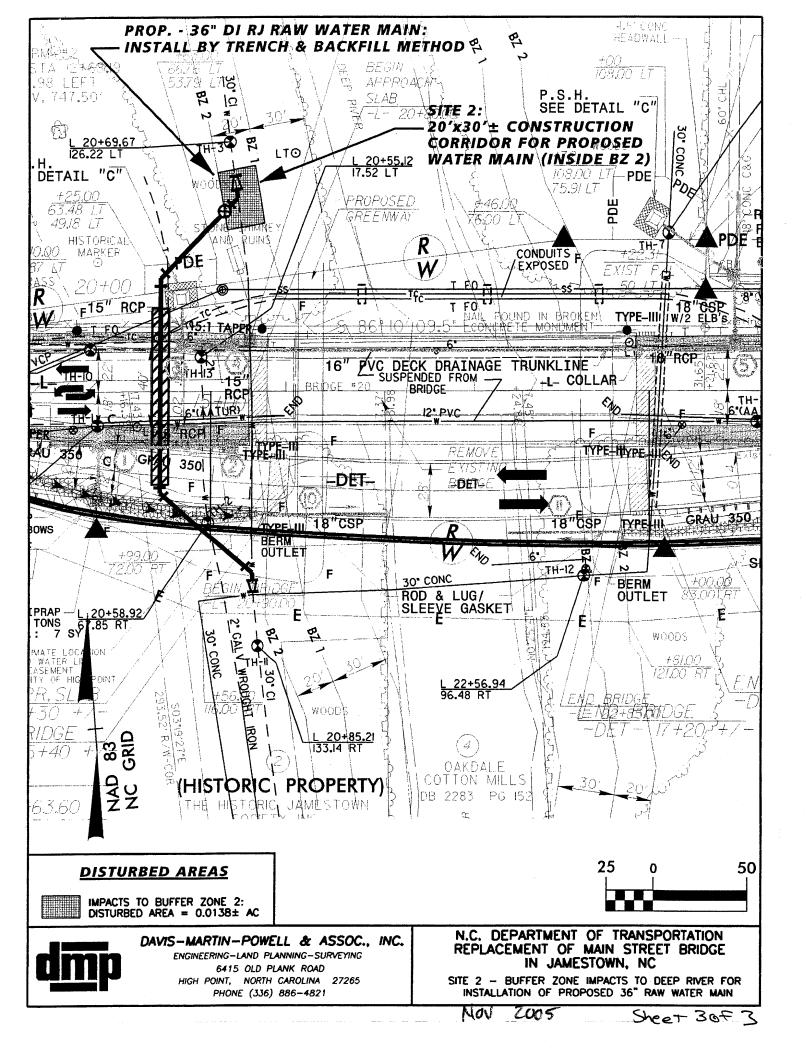


DAVIS-MARTIN-POWELL & ASSOC., INC.

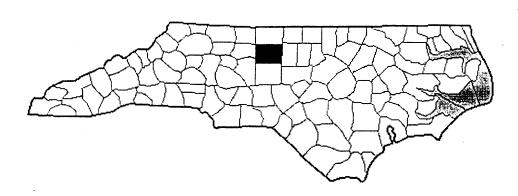
ENGINEERING-LAND PLANNING-SURVEYING 6415 OLD PLANK ROAD HIGH POINT, NORTH CAROLINA 27265 PHONE (336) 886-4821 N.C. DEPARTMENT OF TRANSPORTATION REPLACEMENT OF MAIN STREET BRIDGE IN JAMESTOWN, NC SITE 1 - STREAM CROSSING DETAIL

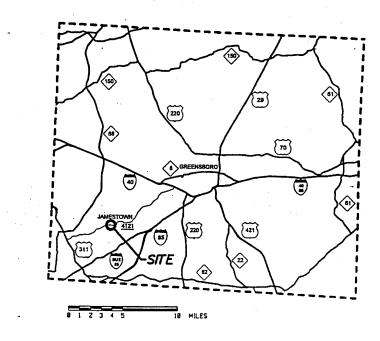
FOR INSTALLATION OF
PROPOSED 12" FINISHED WATER MAIN

NOV 2005 Sheet 2 of 3



NORTH CAROLINA





VICINITY MAP

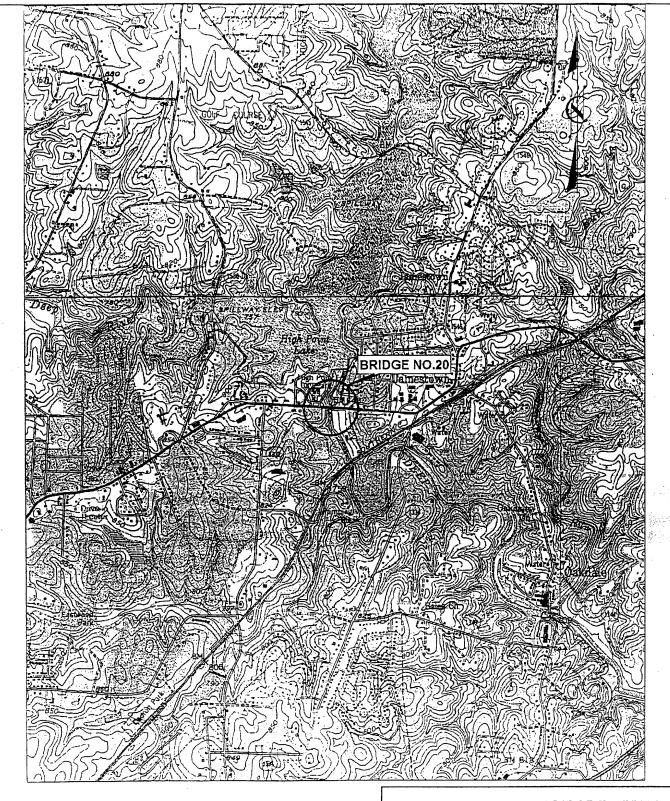
NCDOT

DIVISION OF HIGHWAYS PROJECT: 8.2495801 (B-3652) GUILFORD COUNTY

REPLACE BRIDGE NO. 20 OVER DEEP RIVER ON SR 4121

SHEET LOF 8

JUNE 2004



6,000 2,000 4,000

SITE MAP

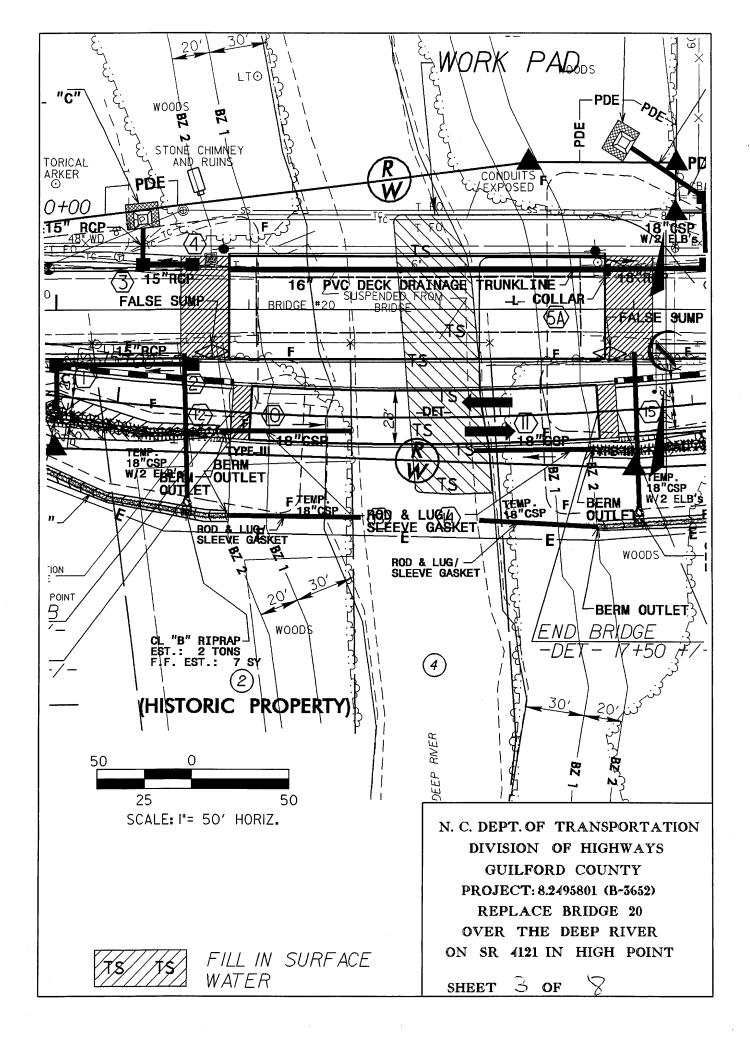
N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

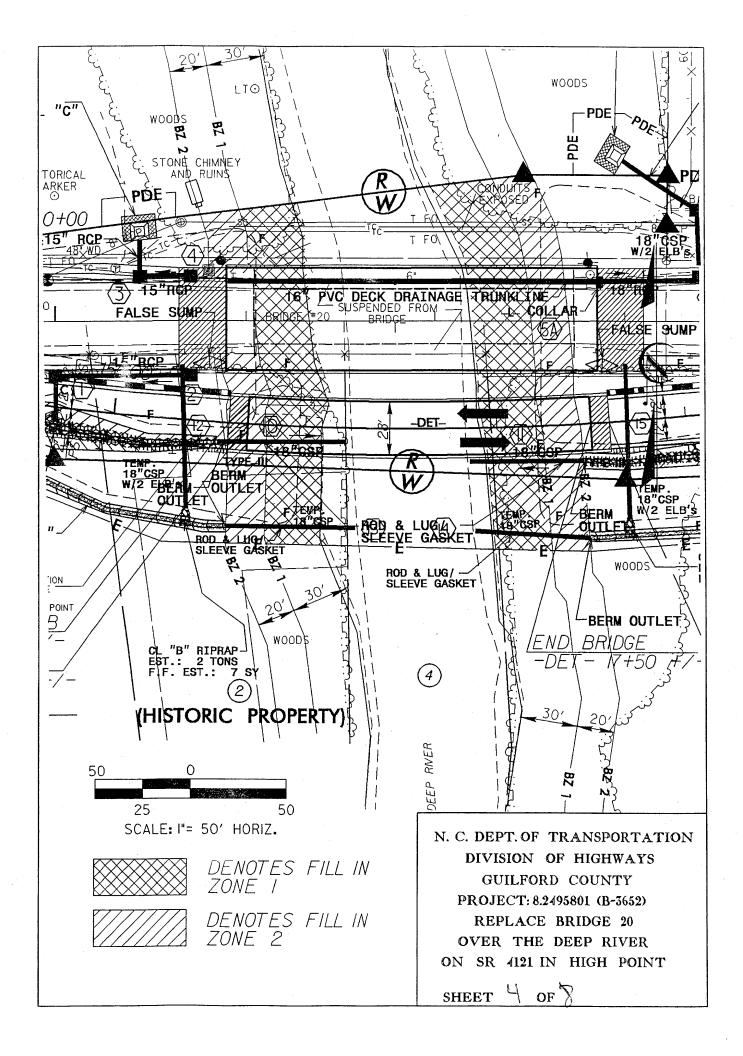
GUILFORD COUNTY

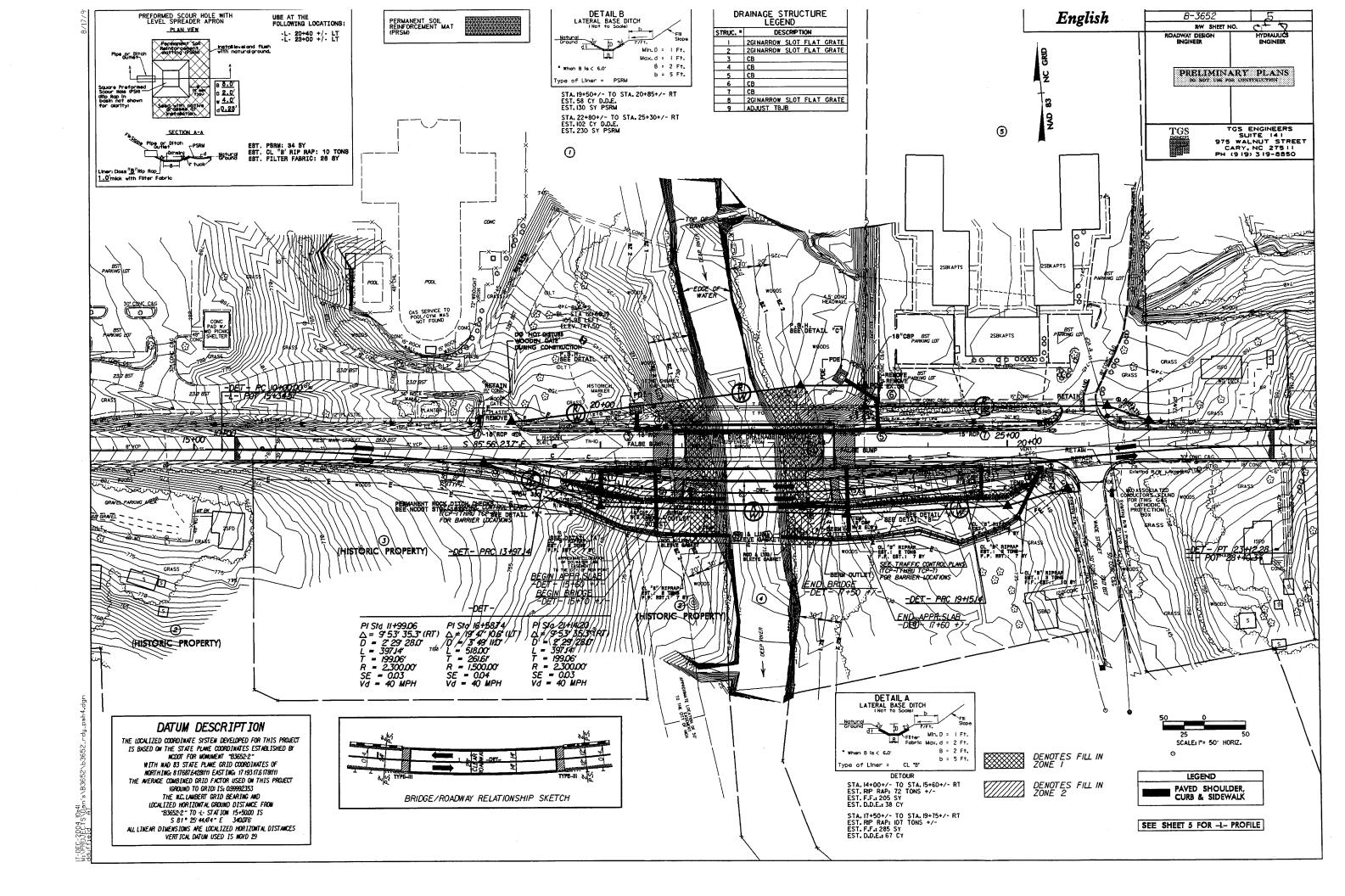
PROJECT: - B-3652

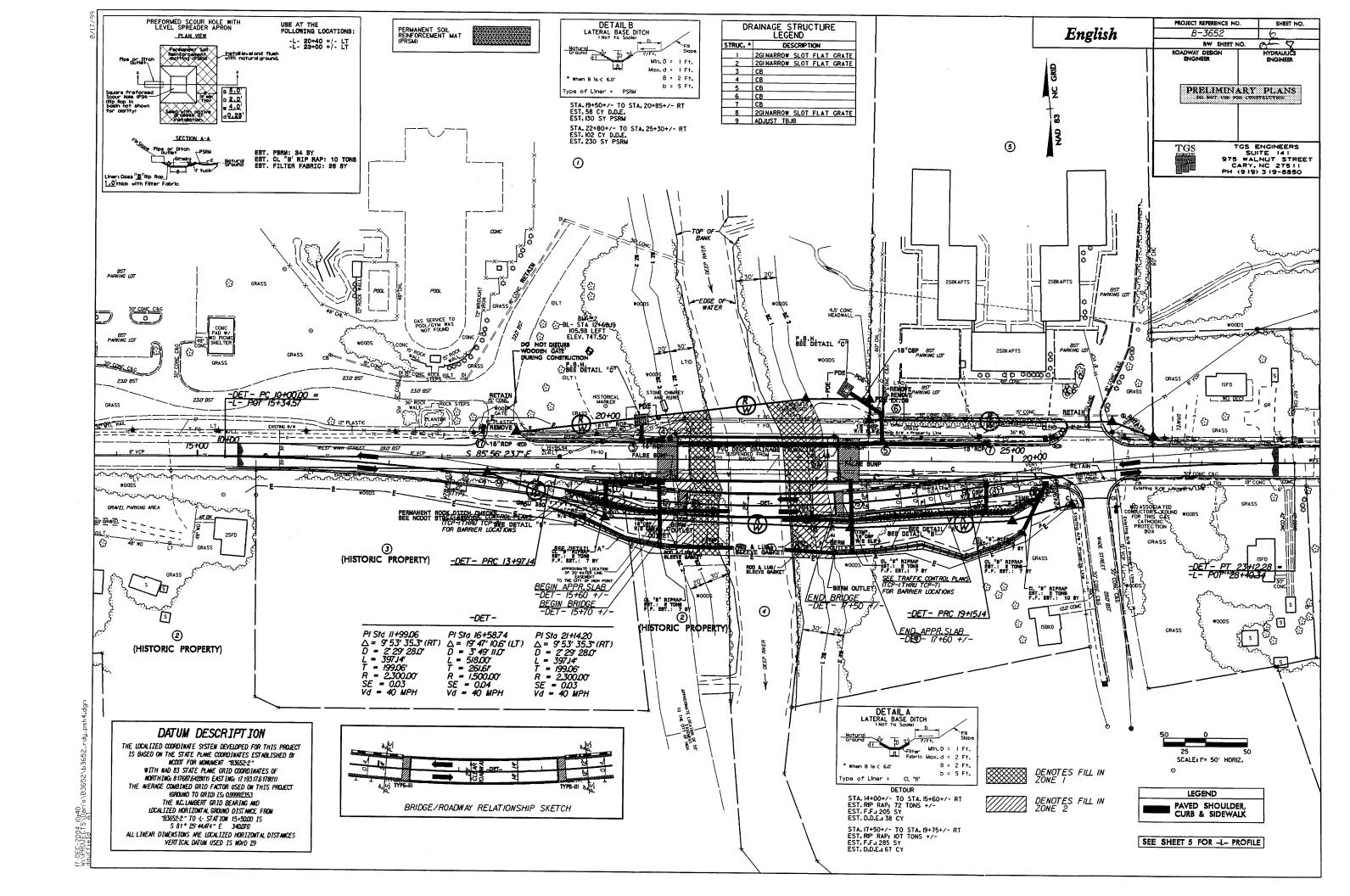
BRIDGE #20 OVER DEEP RIVER ON SR 4121

SHEET 2 OF 8 JUNE 2004









						IMPACT	T SUMMARY	ARY								
	1			WETL	WETLAND IMPACTS	TS			SURFACE	SURFACE WATER IMPACTS	MPACTS			BUFF	BUFFER IMPACT	
Site	Station	Structure	Fill In	Temp. Fill	Excavation In Wetlands	Interchange Isolated	Mechanized Clearing (Method III)	Fill In SW		Temp. Fill	Existing Channel F Impacted	Relocated Channel	Enclosed Channel	Zone 1	Zone 2	Mech Clear
į	(From/To)	OIZC	(ac)			(ac)	(ac)		(ac)	_		(#)	(#)	(sq ft)	(sd ft)	(Sq ft)
																-
-	21+87+/-	PROPOSED												7841	3920	
		BRIDGE														
	16+30+/-	BETOILE												3920	2614	
		BRIDGE														
	TOTALS		0	0	0	0	0	0	0	0	0	0	0	11761	6534	٥
											N.C. DE D	PT. OF TRAINISION OF	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	TION		
												GUILFOR	GUILFORD COUNTY			
											PRO, BRIDG	JECT: 8.2495801 SE #20 OVER DE ON SR 4121	PROJECT: 8.2495801 (B-3652) BRIDGE #20 OVER DEEP RIVER ON SR 4121	-3652) VER		

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	CITY OF HIGHPOINT	P.O. BOX 230 HIGH POINT, NC 27261
2	THE HISTORIC JAMESTOWN SOCIETY, INC.	P.O. BOX 512 JAMESTOWN, NC 27282-0512
3 .	MARY ELIZABETH PERRY RAGSDALE	P.O. BOX 367 JAMESTOWN, NC 27282
4	OAKDALE COTTON MILLS	P.O. BOX 787 JAMESTOWN, NC 27282-0787
5	JAMESTOWN VILLAGE ASSOCIATES, INC.	598 BONNYNECK DR. GEORGETOWN, SC 29440
6	TUCKER ENTERPRISES, INC.	309 COMMERCE DR. CHARLESTON, WV 25306-6405

DIVISION OF HIGHWAYS GUILFORD COUNTY PROJECT: 8.2495801 (B-3652) REPLACE BRIDGE NO.20

OVER DEEP RIVER ON SR 4121

SHEET 8 OF 8 JUNE 2004